

Comparisons of Job Characteristics

Focus Occupation: Geological and Petroleum Technicians (19-4041)

Associated Occupation: Control and Valve Installers and Repairers, Except Mechanical Door (49-9012)

Compare Knowledge

Compare Skills

Compare Abilities

Compare Detailed Work Activities

Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 57

Focus Occupation: Geological and Petroleum Technicians (19-4041)

Associated Occupation: Control and Valve Installers and Repairers, Except Mechanical Door (49-9012)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Mechanical	6.8	13.0	9.6	<<	Extensive education and/or training may be required
Public Safety and Security	6.9	11.1	7.1	<<	Extensive education and/or training may be required
Transportation	4.6	8.0	6.2	<	Expanded education and/or training may be required
Design	5.2	7.4	7.3	0	Current knowledge level may be sufficient
Physics	4.3	7.0	11.2	>>	Current knowledge level is likely more than sufficient
Telecommunications	3.9	5.8	4.1	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 46

Focus Occupation: Geological and Petroleum Technicians (19-4041)

Associated Occupation: Control and Valve Installers and Repairers, Except Mechanical Door (49-9012)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Operation Monitoring	6.6	9.6	8.1	<	A higher skill level may be required
Equipment Maintenance	3.5	8.4	3.9	<<	Extensive development of skills in this area may be required
Operation and Control	5.4	8.3	7.0	<	A higher skill level may be required
Quality Control Analysis	5.9	8.3	6.3	<<	Extensive development of skills in this area may be required

Repairing	3.4	8.1	4.0	<<	Extensive development of skills in this area may be required
Troubleshooting	4.5	7.9	6.1	<	A higher skill level may be required
Equipment Selection	3.3	6.2	4.7	<	A higher skill level may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 77			
Focus Occupation: Geological and Petroleum Technicians (19-4041)					
Associated Occupation: Control and Valve Installers and Repairers, Except Mechanical Door (49-9012)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Comprehension	12.5	10.8	12.6	>	Current ability level is likely sufficient
Near Vision	11.1	10.6	11.1	0	Current ability level may be sufficient
Oral Expression	12.4	10.6	12.3	>	Current ability level is likely sufficient
Extent Flexibility	4.8	10.1	3.6	<<	Extensive improvement in abilities may be required
Problem Sensitivity	11.1	9.8	10.3	0	Current ability level may be sufficient
Arm-Hand Steadiness	6.8	9.7	6.8	<<	Extensive improvement in abilities may be required
Information Ordering	9.9	9.6	10.7	>	Current ability level is likely sufficient
Multilimb Coordination	6.0	9.4	6.1	<<	Extensive improvement in abilities may be required
Manual Dexterity	6.5	9.2	5.1	<<	Extensive improvement in abilities may be required
Gross Body Equilibrium	3.2	6.8	3.1	<<	Extensive improvement in abilities may be required
Glare Sensitivity	2.6	6.1	2.3	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 72
Focus Occupation: Geological and Petroleum Technicians (19-4041) Associated Occupation: Control and Valve Installers and Repairers, Except Mechanical Door (49-9012)		
Work Activities	Exclusivity of Activity	
Distinguish colors	44	
Install/connect electrical equipment to power circuit	57	
Measure, weigh, or count products or materials	17	
Perform safety inspections in industrial, manufacturing or repair setting	32	
Read technical drawings	7	
Repair or adjust measuring or control devices	71	

Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6
Use pressure gauges	76

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 40

Focus Occupation: Geological and Petroleum Technicians (19-4041)

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Tools and Technologies	Exclusivity
Audio and visual equipment	4
Business function specific software	1
Computer data input devices	2
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Data management and query software	1
Forming tools	2
Industry specific software	1
Length and thickness and distance measuring instruments	2
Measuring and layout tools	3

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.